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🔍 Title: **JP2003012909A2: BINDER RESIN CONTAINING NOVEL POLYHYDROXYALKANOATE, TONER CONTAINING SAID RESIN, AND FORMATION METHOD AND APPARATUS USING SAID TONER**

🔍 Country: JP Japan

🔍 Kind: A2 Document Laid open to Public inspection (See also: [JP3496002B2](#))

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🔍 Abstract: **PROBLEM TO BE SOLVED:** To provide a binder resin for an electrostatic image development toner, biodegradable and therefore contributing more to natural environment preservation, facilitating deinking in the alkali-aided deinking process, promoting the reuse of used duplicate paper, and satisfying all the requirements of an electrostatic image development toner.

**SOLUTION:** The binder resin is prepared by using a polyhydroxyalkanoate having the monomer unit composition described by formula (1):  $AmB(1-m)$ , wherein A is the monomer unit described by formula (2), B is at least one monomer unit selected from the group consisting of the monomer units described by formulas (3) and (4) and m is a number not less than 0.01 but not more than 1. In formulas (2), (3), and (4), n is 0 to 10, k is 3 or 5, and R is selected from the group consisting of the groups described by formulas (5), (6), (7), and (8), wherein R1 to R4 are selected from the group consisting of hydrogen atoms (H) and fluorine atoms and q, r, s, and t are selected from integers 1 to 8.

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